



# Grain Crushings and Co-Products Production

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## Highlights

**November 2021** contained 30 days.

**December 2021** contained 31 days.

**Total corn consumed** for alcohol and other uses was 539 million bushels in December 2021. Total corn consumption was up 4 percent from November 2021 and up 12 percent from December 2020. December 2021 usage included 92.5 percent for alcohol and 7.5 percent for other purposes. Corn consumed for beverage alcohol totaled 4.74 million bushels, down 1 percent from November 2021 but up 28 percent from December 2020. Corn for fuel alcohol, at 486 million bushels, was up 4 percent from November 2021 and up 13 percent from December 2020. Corn consumed in December 2021 for dry milling fuel production and wet milling fuel production was 92.0 percent and 8.0 percent, respectively.

**Dry mill co-product production** of distillers dried grains with solubles (DDGS) was 2.07 million tons during December 2021, up 4 percent from November 2021 and up 16 percent from December 2020. Distillers wet grains (DWG) 65 percent or more moisture was 1.42 million tons in December 2021, up 7 percent from November 2021 and up 30 percent from December 2020.

**Wet mill corn gluten feed production** was 285,387 tons during December 2021, up 2 percent from November 2021 but down 8 percent from December 2020. Wet corn gluten feed 40 to 60 percent moisture was 214,346 tons in December 2021, up 1 percent from November 2021 and up 16 percent from December 2020.

## Dry and Wet Mill, Corn Consumed – United States: December 2021 with Comparisons

Purpose	December 2020	November 2021	December 2021
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
<b>Consumed for alcohol production</b>			
Beverage alcohol .....	3,716	4,790	4,740
Fuel alcohol .....	431,731	466,867	485,816
Dry mill .....	388,228	429,207	447,110
Wet mill .....	43,503	37,660	38,706
Industrial alcohol .....	6,331	6,362	8,072
<b>Consumed for other purposes</b>			
Total wet mill products other than fuel .....	37,948	40,792	40,651

## Dry Mill, Sorghum Consumed – United States: December 2021 with Comparisons

Purpose	December 2020	November 2021	December 2021
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
<b>Consumed for alcohol production</b>			
Fuel alcohol .....	(D)	(D)	(D)

(D) Withheld to avoid disclosing data for individual operations.

## Dry and Wet Mill, Co-products and Products Produced – United States: December 2021 with Comparisons

Co-products and products	December 2020	November 2021	December 2021
	(tons)	(tons)	(tons)
<b>Dry mill</b>			
Condensed distillers solubles (CDS - syrup) .....	74,497	87,051	94,168
Corn oil (Corn Distillers Oil - CDO) .....	160,259	187,291	194,497
Distillers dried grains (DDG) .....	364,532	379,071	383,196
Distillers dried grains with solubles (DDGS) .....	1,787,124	1,997,444	2,073,188
Distillers wet grains (DWG) 65% or more moisture .....	1,094,599	1,328,995	1,422,171
Modified distillers wet grains (DWG) 40% to 64% moisture .....	435,648	515,758	546,625
<b>Wet mill</b>			
Corn germ meal .....	47,715	61,842	63,314
Corn gluten feed .....	309,298	278,434	285,387
Corn gluten meal .....	113,754	110,303	107,003
Wet corn gluten feed 40% to 60% moisture .....	185,187	211,260	214,346
<b>Dry and wet mill</b>			
Carbon dioxide captured .....	185,563	219,586	251,666

## Statistical Methodology

**Survey Procedures:** *Grain Crushings and Co-Products Production* is part of the Current Agricultural Industrial Reports (CAIR) program. CAIR reports are administered under NASS's Census of Agriculture program. Response to CAIR surveys are required by law (Title 7, U.S. Code). Data are collected from all known mills that produce ethanol.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of ethanol production in 2014. During the operation profile, facilities that met the survey criteria were asked for the nameplate production capacity. The operation profile also documented the manner in which the firm will report. A firm headquarters can report for all milling locations or each location can report separately.

In the Dry Mill Producers and Wet Mill Producers survey questionnaires, mills are asked for previous calendar month data on feedstocks consumed, products and co-products produced. Mills are mailed questionnaires with the options of completing the survey by mail or by Electronic Data Reporting (EDR). For surveys not received in a reasonable amount of time, telephone follow-up is conducted.

**Estimating Procedures:** Imputation is done for operations with non-response by using historical data and current data relationships. Data for reporting firms are added to estimates for non-reporting firms to obtain National totals.

**Revision Policy:** Data are revised the following month based on late reports or corrected data. Final figures are published in the annual summary of the following year.

**Reliability:** Approximately 130 reports are received each month which represent about 90 percent of total capacity. Monthly data can vary due to different firms reporting month to month. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and in processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

## Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@usda.gov](mailto:nass@usda.gov)

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For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@usda.gov](mailto:nass@usda.gov).

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